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25X1A 2223-63  
Copy 2 of 8

12 February 1963

MEMORANDUM FOR : The Record

SUBJECT : F4H-1 Airplane Engine Foreign Object  
Damage Experience Relative to A-12

1. As a matter of interest, early flight test foreign object damage (FOD) experience for the F4H airplane with which the writer was associated is summarized herewith. The F4H is similar to the A-12 to the extent of being a high Mach twin turbojet engine vehicle with variable geometry inlets.

2. During the first seven months of flight operation in 1958 involving three F4H airplanes, the following engine FODs were experienced:

|  |    |
|--|----|
| Total occurrences                      | 14 |
| Major FODs requiring engine overhaul   | 9  |
| *Major FODs attributed to inlet debris | 4  |

\*Three of these four occurred on airplanes with less than 3 hours flight time.

3. During the first nine months of flight operation involving four A-12 airplanes, the following engine FODs have been experienced:

|   |   |
|---|---|
| Total occurrences   | 6 |
| *Major FODs requiring engine overhaul<br>(3 J75s, 2 J58s) | 5 |

\*Four of these five occurred in airplanes with from zero to 3 hours flight time. One occurred at 11 hours.

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